

**NEW WATER/WASTEWATER CIP PROJECT DESCRIPTION**

**Project Name:** Union Hill Road – Avondale to 178<sup>th</sup>

**Project Cost:** \$255,000

**Project Location:** Union Hill Road

**Project Description:** Replace water main in conjunction with Union Hill Road Phase 1 transportation improvements

**Project Justification:** Increased demand on the system due to development along Union Hill Road  
Constructing in conjunction with road project for efficiency and cost savings.

**General Fund Impact:** None.

**Project Schedule:** 2008

	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<b>Total <u>2003-2008</u></b>
Total Project Cost	\$0	\$0	\$0	\$0	\$0	\$255,000	\$255,000
<b><u>Total Project Revenues</u></b>							
W/WW CIP	\$0	\$0	\$0	\$0	\$0	\$255,000	\$255,000

**NEW WATER/WASTEWATER CIP PROJECT DESCRIPTION**

**Project Name:** Novelty Hill Road Water Main Replacement

**Project Cost:** \$100,000

**Project Location:** Novelty Hill Road – Avondale to 192<sup>nd</sup>

**Project Description:** Water main will be replaced in coordination with county road improvements

**Project Justification:** Water main is aging and in need of replacement. Constructing in conjunction with road project for efficiency and cost savings.

**General Fund Impact:** None.

**Project Schedule:** 2004

	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<b>Total <u>2003-2008</u></b>
Total Project Cost	\$0	\$100,000	\$0	\$0	\$0	\$0	\$100,000
<b><u>Total Project Revenues</u></b>							
W/WW CIP	\$0	\$100,000	\$0	\$0	\$0	\$0	\$100,000

**NEW WATER/WASTEWATER CIP PROJECT DESCRIPTION**

**Project Name:** North Rose Hill Booster Pump Station

**Project Cost:** \$340,000

**Project Location:** North Rose Hill in Kirkland

**Project Description:** Replacement of the North Rose Hill Booster Pump Station, a shared facility with Kirkland. The project will be done by Kirkland. The budget is for Redmond's portion of the cost.

**Project Justification:** The station is undersized for the needs of that area and is planned for replacement.

**General Fund Impact:** None.

**Project Schedule:** 2005-2006

	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<b>Total <u>2003-2008</u></b>
Total Project Cost	\$0	\$0	\$30,000	\$310,000	\$0	\$0	\$340,000
<b><u>Total Project Revenues</u></b>							
W/WW CIP	\$0	\$0	\$30,000	\$310,000	\$0	\$0	\$340,000

**NEW WATER/WASTEWATER CIP PROJECT DESCRIPTION**

**Project Name:** Telemetry System Upgrades

**Project Cost:** \$40,000

**Project Location:** Maintenance and Operations Center (MOC) and joint use facilities

**Project Description:** Upgrade of telemetry system and software for the City's joint use facilities

**Project Justification:** To ensure reliability of telemetry system and to allow project information and facility information to be maintained online.

**General Fund Impact:** None.

**Project Schedule:** 2004 and 2008

	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<b>Total <u>2003-2008</u></b>
Total Project Cost	\$0	\$20,000	\$0	\$0	\$0	\$20,000	\$40,000
<b><u>Total Project Revenues</u></b>							
W/WW CIP	\$0	\$20,000	\$0	\$0	\$0	\$20,000	\$40,000

**NEW WATER/WASTEWATER CIP PROJECT DESCRIPTION**

**Project Name:** Redmond Way – 170<sup>th</sup> Street to SR 520

**Project Cost:** \$137,000

**Project Location:** Redmond Way from 170<sup>th</sup> Street to SR 520

**Project Description:** Water main in Redmond Way will be replaced in conjunction with Redmond Way Transit Improvements Phase 2 project

**Project Justification:** Water main is aging and in need of replacement. Constructing in conjunction with road project for efficiency and cost savings.

**General Fund Impact:** None.

**Project Schedule:** 2006-2007

	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<b>Total <u>2003-2008</u></b>
Total Project Cost	\$0	\$0	\$0	\$75,000	\$62,000	\$0	\$137,000
<b><u>Total Project Revenues</u></b>							
W/WW CIP	\$0	\$0	\$0	\$75,000	\$62,000	\$0	\$137,000

**NEW WATER/WASTEWATER CIP PROJECT DESCRIPTION**

**Project Name:** NE 116<sup>th</sup> Street Water Main Replacement

**Project Cost:** \$144,000

**Project Location:** NE 116<sup>th</sup> Street

**Project Description:** Replace water main in conjunction with NE 116<sup>th</sup> Street widening project

**Project Justification:** Improved fire flows and service for development north and south of 116<sup>th</sup> Street

**General Fund Impact:** None.

**Project Schedule:** 2003

	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<b>Total <u>2003-2008</u></b>
Total Project Cost	\$144,000	\$0	\$0	\$0	\$0	\$0	\$144,000
<b><u>Total Project Revenues</u></b>							
W/WW CIP	\$144,000	\$0	\$0	\$0	\$0	\$0	\$144,000

**NEW WATER/WASTEWATER CIP PROJECT DESCRIPTION**

**Project Name:** 182<sup>nd</sup> Avenue NE Water Main

**Project Cost:** \$11,000

**Project Location:** 182<sup>nd</sup> Avenue NE

**Project Description:** Replace water main connection

**Project Justification:** Replacing this connection will improve service pressure and fire flow. It will also improve system reliability, operation, and maintenance.

**General Fund Impact:** None.

**Project Schedule:** 2005

	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<b>Total <u>2003-2008</u></b>
Total Project Cost	\$0	\$0	\$11,000	\$0	\$0	\$0	\$11,000
<b><u>Total Project Revenues</u></b>							
W/WW CIP	\$0	\$0	\$11,000	\$0	\$0	\$0	\$11,000

**NEW WATER/WASTEWATER CIP PROJECT DESCRIPTION**

**Project Name:** 173<sup>rd</sup> Court NE Water Main

**Project Cost:** \$28,000

**Project Location:** 173<sup>rd</sup> Court NE

**Project Description:** Replace water main connection

**Project Justification:** Replacing this connection will improve service pressure and fire flow. It will also improve system reliability, operation, and maintenance.

**General Fund Impact:** None.

**Project Schedule:** 2007

	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<b>Total <u>2003-2008</u></b>
Total Project Cost	\$0	\$0	\$0	\$0	\$28,000	\$0	\$28,000
<b><u>Total Project Revenues</u></b>							
W/WW CIP	\$0	\$0	\$0	\$0	\$28,000	\$0	\$28,000



**NEW WATER/WASTEWATER CIP PROJECT DESCRIPTION**

**Project Name:** NE 60<sup>th</sup> & 150<sup>th</sup> Court NE Water Main

**Project Cost:** \$22,000

**Project Location:** NE 60<sup>th</sup> & 150<sup>th</sup> Court NE

**Project Description:** Replace water main connection

**Project Justification:** Replacing this connection will improve service pressure and fire flow. It will also improve system reliability, operation, and maintenance.

**General Fund Impact:** None.

**Project Schedule:** 2007

	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<b>Total <u>2003-2008</u></b>
Total Project Cost	\$0	\$0	\$0	\$0	\$22,000	\$0	\$22,000
<b><u>Total Project Revenues</u></b>							
W/WW CIP	\$0	\$0	\$0	\$0	\$22,000	\$0	\$22,000

**NEW WATER/WASTEWATER CIP PROJECT DESCRIPTION**

**Project Name:** Overlake – Sears Water Main

**Project Cost:** \$35,000

**Project Location:** Overlake – Sears area

**Project Description:** Replace water main connection

**Project Justification:** Replacing this connection will improve service pressure and fire flow. It will also improve system reliability, operation, and maintenance.

**General Fund Impact:** None.

**Project Schedule:** 2007

	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<b>Total <u>2003-2008</u></b>
Total Project Cost	\$0	\$0	\$0	\$0	\$35,000	\$0	\$35,000
<b><u>Total Project Revenues</u></b>							
W/WW CIP	\$0	\$0	\$0	\$0	\$35,000	\$0	\$35,000

**NEW WATER/WASTEWATER CIP PROJECT DESCRIPTION**

**Project Name:** 184<sup>th</sup> & NE 97<sup>th</sup> Water Main

**Project Cost:** \$9,000

**Project Location:** 184<sup>th</sup> & NE 97<sup>th</sup>

**Project Description:** Replace water main connection

**Project Justification:** Replacing this connection will improve service pressure and fire flow. It will also improve system reliability, operation, and maintenance.

**General Fund Impact:** None.

**Project Schedule:** 2007

	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<b>Total <u>2003-2008</u></b>
Total Project Cost	\$0	\$0	\$0	\$0	\$9,000	\$0	\$9,000
<b><u>Total Project Revenues</u></b>							
W/WW CIP	\$0	\$0	\$0	\$0	\$9,000	\$0	\$9,000

**NEW WATER/WASTEWATER CIP PROJECT DESCRIPTION**

**Project Name:** Harper Hill Apartment Meters

**Project Cost:** \$75,000

**Project Location:** Harper Hill Apartments

**Project Description:** Replace the single master meter with a new meter for each building

**Project Justification:** This development is served by a single master meter that supplies multiple buildings and the fire system for the development. The existing meter is oversized to allow for the operation of the fire system, which results in inaccurate readings for normal domestic use. Having a single meter also complicates construction and leak detection.

**General Fund Impact:** None.

**Project Schedule:** 2007

	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<b>Total <u>2003-2008</u></b>
Total Project Cost	\$0	\$0	\$0	\$0	\$75,000	\$0	\$75,000
<b><u>Total Project Revenues</u></b>							
W/WW CIP	\$0	\$0	\$0	\$0	\$75,000	\$0	\$75,000

**NEW WATER/WASTEWATER CIP PROJECT DESCRIPTION**

**Project Name:** Sunpointe Village Apartment Meters

**Project Cost:** \$75,000

**Project Location:** Sunpointe Village Apartments

**Project Description:** Replace the single master meter with a new meter for each building

**Project Justification:** This development is served by a single master meter that supplies multiple buildings and the fire system for the development. The existing meter is oversized to allow for the operation of the fire system, which results in inaccurate readings for normal domestic use. Having a single meter also complicates construction and leak detection.

**General Fund Impact:** None.

**Project Schedule:** 2007

	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<b>Total <u>2003-2008</u></b>
Total Project Cost	\$0	\$0	\$0	\$0	\$75,000	\$0	\$75,000
<b><u>Total Project Revenues</u></b>							
W/WW CIP	\$0	\$0	\$0	\$0	\$75,000	\$0	\$75,000

**NEW WATER/WASTEWATER CIP PROJECT DESCRIPTION**

**Project Name:** Archstone Apartment Meters

**Project Cost:** \$75,000

**Project Location:** Archstone Apartments

**Project Description:** Replace the single master meter with a new meter for each building

**Project Justification:** This development is served by a single master meter that supplies multiple buildings and the fire system for the development. The existing meter is oversized to allow for the operation of the fire system, which results in inaccurate readings for normal domestic use. Having a single meter also complicates construction and leak detection.

**General Fund Impact:** None.

**Project Schedule:** 2007

	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<b>Total <u>2003-2008</u></b>
Total Project Cost	\$0	\$0	\$0	\$0	\$75,000	\$0	\$75,000
<b><u>Total Project Revenues</u></b>							
W/WW CIP	\$0	\$0	\$0	\$0	\$75,000	\$0	\$75,000

**NEW WATER/WASTEWATER CIP PROJECT DESCRIPTION**

**Project Name:** Electronic Facilities Operations Manuals

**Project Cost:** \$90,000

**Project Location:** Various facilities

**Project Description:** Development of electronic versions of operations manuals for existing facilities

**Project Justification:** To improve the availability and accessibility of this information for Operations staff.

**General Fund Impact:** None.

**Project Schedule:** 2003-2004

	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<b>Total <u>2003-2008</u></b>
Total Project Cost	\$10,000	\$80,000	\$0	\$0	\$0	\$0	\$90,000
<b><u>Total Project Revenues</u></b>							
W/WW CIP	\$10,000	\$80,000	\$0	\$0	\$0	\$0	\$90,000

**NEW WATER/WASTEWATER CIP PROJECT DESCRIPTION**

**Project Name:** Control System Upgrades

**Project Cost:** \$37,000

**Project Location:** Maintenance and Operations Center (MOC) and various facilities

**Project Description:** Hardware and software upgrades to the water control system

**Project Justification:** Control system hardware and software are outdated and can no longer be maintained cost-efficiently.

**General Fund Impact:** None.

**Project Schedule:** 2004

	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<b>Total <u>2003-2008</u></b>
Total Project Cost	\$0	\$37,000	\$0	\$0	\$0	\$0	\$37,000
<b><u>Total Project Revenues</u></b>							
W/WW CIP	\$0	\$37,000	\$0	\$0	\$0	\$0	\$37,000



**NEW WATER/WASTEWATER CIP PROJECT DESCRIPTION**

**Project Name:** Main, Valve, & Hydrant Replacement Program

**Project Cost:** \$1,000,000

**Project Location:** Various locations throughout the City

**Project Description:** Replacement of miscellaneous mains, valves, and hydrants

**Project Justification:** To minimize emergencies and catastrophic failures.

**General Fund Impact:** None.

**Project Schedule:** 2005-2008

	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<u>Total 2003-2008</u>
Total Project Cost	\$0	\$0	\$50,000	\$450,000	\$50,000	\$450,000	\$1,000,000
<u>Total Project Revenues</u>							
W/WW CIP	\$0	\$0	\$50,000	\$450,000	\$50,000	\$450,000	\$1,000,000

**NEW WATER/WASTEWATER CIP PROJECT DESCRIPTION**

**Project Name:** Large Meter Vault and Pressure-Reducing Valve (PRV) Replacement Program

**Project Cost:** \$500,000

**Project Location:** Various locations throughout the City

**Project Description:** Replacement of large commercial meters, vaults, and demand meters between service areas, and pressure-reducing valves

**Project Justification:** As meters age, they tend to under-register and need to be replaced to minimize erroneous readings or malfunctions. The vaults and pressure-reducing valves also need replacing as they age to minimize emergencies and failures.

**General Fund Impact:** None.

**Project Schedule:** 2007-2008

	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<b>Total <u>2003-2008</u></b>
Total Project Cost	\$0	\$0	\$0	\$0	\$50,000	\$450,000	\$500,000
<b><u>Total Project Revenues</u></b>							
W/WW CIP	\$0	\$0	\$0	\$0	\$50,000	\$450,000	\$500,000

**NEW WATER/WASTEWATER CIP PROJECT DESCRIPTION**

**Project Name:** NE 116<sup>th</sup> Street Sewer Main Replacement

**Project Cost:** \$300,000

**Project Location:** NE 116<sup>th</sup> Street

**Project Description:** Replace sewer main in conjunction with NE 116<sup>th</sup> Street widening project

**Project Justification:** Improved service for development north and south of 116<sup>th</sup> Street.

**General Fund Impact:** None.

**Project Schedule:** 2005

	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<b>Total <u>2003-2008</u></b>
Total Project Cost	\$0	\$0	\$300,000	\$0	\$0	\$0	\$300,000
<b><u>Total Project Revenues</u></b>							
W/WW CIP	\$0	\$0	\$300,000	\$0	\$0	\$0	\$300,000

**NEW WATER/WASTEWATER CIP PROJECT DESCRIPTION**

**Project Name:** NE 124<sup>th</sup> Street Sewer Adjustments

**Project Cost:** \$40,000

**Project Location:** NE 124<sup>th</sup> Street

**Project Description:** Miscellaneous sewer line adjustments and replacements which may be needed due to county road project

**Project Justification:** Replace manholes, move lines, etc. to meet new road grade or to avoid conflicts with new poles or curbing.

**General Fund Impact:** None.

**Project Schedule:** 2003

	<u>2003</u>	<u>2004</u>	<u>2005</u>	<u>2006</u>	<u>2007</u>	<u>2008</u>	<b>Total <u>2003-2008</u></b>
Total Project Cost	\$40,000	\$0	\$0	\$0	\$0	\$0	\$40,000
<b><u>Total Project Revenues</u></b>							
W/WW CIP	\$40,000	\$0	\$0	\$0	\$0	\$0	\$40,000